hence it is inconceivable that they should go wrong on Saturn. Only the last objection, therefore, remains—a personal one—defective vision. This, if it has weight in this particular case, would also apply to many who are reckoned as highly-skilled observers. I may especially signalise M. Trouvelot and Dr. Terby. former, in a valuable paper on Saturn (Comptes rendus, t. xcviii. p. 968), sums up the results of his own observations with the remark:--"Les anneaux de cette planète, loin d'être stables, sont, au contraire, essentiellement variables et subissent des changements continuels." Since this was written, in 1884, much additional evidence has been forthcoming to support its truth. The existence of masses sombres on ring C was announced last year by Dr. Terby, and of indentations on its inner edge by myself; while equally remarkable appearances were recorded by MM. Stroobant and Stuyvaert with the 15-inch equatorial of the Brussels Observatory. This year Dr. Terby has again seen abnormal features. They have also been noted by Major Watson, who has observed dark patches on both ansæ and a serrated edge to ring C, with his fine 13-inch With mirror, at Newbridge, Ireland; by Rev. P. H. Kempthorne, M.A., of Wellington College, who has seen both spots and indentations in connection with C, with an $8\frac{1}{2}$ -inch With; and also by M. Gaudibert with an $8\frac{1}{2}$ -inch reflector, at Vaison, Vaucluse.

It is perhaps noteworthy that those, with sufficient optical means, who do not see them, are more or less desultory observers of the planet, while those just mentioned examined it on every available opportunity. Continuous observation, night after night, doubtless tends to educate the eye, so that it soon becomes so familiar with the object scrutinised, that delicate features, which are either only doubtfully glimpsed or not seen at all by the occasional gazer, are readily detected whenever definition permits.

No telescope of the largest type has of late, so far as I know, been brought to bear upon the rings of Saturn. It is to be hoped that this will be done before they become too unfavourably placed for the detection of abnormal details.

Kempston, Beds: 1888, May 31.

Observations of Sappho (80). By Professor C. H. F. Peters.

On account of the state of the weather I have not succeeded in obtaining more than the following observations. They are made with the filar micrometer of the 13-inch refractor, power 270, bright wires in dark field. The differences between star and planet have been corrected for refraction.

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App. α.	h m s	13 28 23:30	27 25.33	25 32.39	23 41.03	he positions of the comparison stars for 1888's are adopted as follows:	(Red. to app. place $+ 1^{\circ}.26$; $-4''.8$.) Mean of	W. 13h.422, incl. syst. corr0801; +1"2.	Sant. (IV.) 1244, incl. syst. corr. +08.13; +0".5.	(Red. $+1^{s}.27$; $-5''.o.$) Mean of	W. $13^{h}356$, incl. syst. corr. $-0^{s}01$; $+1''-2$.	Lam. 1326, incl. syst. corr. +0*05; +0".7.	Sant. (IV.) 1241, incl. syst. corr. +08.13; +0".5.	(Red. + 18.28; -5".o.) Mean by weight of	w. I, W. $13^{\text{b}}.412$, incl. syst. corr. $-0^{\text{s}}.01$; $+1''.2$.	w. 2, Altona, A. N. vol. xxxiv. (Kam, 2479.)	Sant. (IV.) 1243	oba Gen. Cat. 18
No. comp.		01	12	15	Ħ	o are ad	(Red	W. I	Sant.	(Red	W. I	Lam.	Sant.	(Red		₩. 2,	W. 2,	Cord
۵δ.	**	+3 57.0	-2 44.2	+1 43.4	9.11.6	stars for 1888	° ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	14.8	13.0	-13 25 20.7	20.8	7.7.7	0.61	-13 13 29.3	31.8	28.8	28.6	-12 52 160
Δα.	m s	+0 55.86	+3 23.48	06.61 1-	-I 37.0I	comparison	h m s 13 27 26 18	90.92	26.31	13 24 0.57	65.0	95.0	0.55	13 26 51.01	90.15	51.10	20.90	13 25 1675
H. C. Mean Time.	n s	9 8 44	10 43 35	12 23 57	12 44 15	of the	h m a 13 27)		b 13				c, 13				d 13
H. C. M.	,d	April 3 9	H	6 12	8 12	e positions	•			~								

For this last star we find the following older determinations (syst. corr. not included):

	$\mathbf{h} \mathbf{m} \mathbf{s}$	o <i>I 11</i>
LL. 24990	13 25 17:56	-12 52 11.6
W. 13h.378	17.45	13.8
Lam. 1328	16.74	14.9
Sant. (III.) 1550	16.98	17.0

which perhaps indicate a slight proper motion.

On April 6 I have used a star different from the one suggested by Mr. Bryant, since the distance in declination of DM.—12°·3834 (in *Monthly Notices* xlviii. p. 96, the minute of R.A. should be 26^m instead of 25^m) from the planet became inconveniently large for our meridian.

The comparison of the observations with Mr. Bryant's ephemeris, employing the annexed parallaxes, gives the following

corrections O—C:

	Para	llax.	Corr. Δa .	Corr. $\Delta \delta$.
April 3	s -0.51	" +4.0	s + 6·86	-29·5
4	-0·12	+4.2	6.44	31.1
6	0.00	+4.3	6.69	32.8
8	+ 0.04	+4.3	6.74	33.9

Litchfield Observatory of Hamilton College, Clinton, N.Y.: 1888, May 8.

Observations of Comet a 1888 (Saverthal), made at the Royal Observatory, Greenwich.

(Communicated by the Astronomer Royal.)

The observations were made with the East or Sheepshanks Equatorial, aperture 6.7 inches, by taking transits

			Comet	Comet a 1888 (Sawerthal).	rthat).				
Greenwich Mean Solar Time.	Observer.	₩-* B.A.	Corr. for Par. and Refraction in R.A.	%* N.P.D.	Corr. for Par. and Refraction in N.P.D.	No. of Comp.	Apparent R.A.	Apparent (N.P.D.	Comp. Star.
1888 d h m s	=	m s	. (= 0	= ;	٧	h m s	- 1	· •
May II 14 30 I	н. Т.	-115.22	-0.30	+ 8 12.7	3.0	0	23 40 25.50	57 52 13.4	ક
12 13 45 29	T.	-o 36.39	-0.30	+ I 8·I	-3.6	6	23 50 25.31	57 26 15.4	9
13 58 11		+0 11.25	-0.30	+ 10 41.0	-2.8	63	•	:	O
13 13 17 10	H. T.	+2 3.35	-0.30	- 7 48.0	-5.I	4	23 52 28.55	57 0 27.3	q
13 18 22		+3 49.12	-0.32	-123.6	-4·I	Ŋ	23 52 30.10	57 0 29.3	0
13 28 27		-11520	-0.37	+ 6 16.4	-3.r	3	23 52 31.03	57 0 12.9	<i>F</i> .
15 13 28 56	II. T.	-2 21.50	-0.30	+11 8.1	-30	8	23 56 35 90	56 9 28.0	8
18 12 29 10	H. T.	-I 16·48	-0.30	- 0 22.3	-4.I	9	:	:	4
23 12 24 12	T.	+0 7.25	-0.30	-224.3	-4.6	8	:		.60
31 12 44 43	H. T.	+1 14.63	-0.30	+ I 34.5	-3.5	4	0 25 41.23	50 16 42.6	.0
12 48 34		+1 7.93	-0.30	- 5 59.7	-3.8	9	:	:	¥
12 56 17		- I 48·90	-0.30	-I4 I7'6	-4.3	0	0 25 39.90	50 16 35.5	7
3 13 27 45	H. T.	+ 1 29.10	-0.30	+ 4 14.7	-2.6	I	0 30 26.90	49 19 9.0	u
6 11 37 2	H. T.	-0 25.92	-0.30	+ 0 9.5	9.5-	9	:	:	z